



## Adapting to climate change in Europe - Options for EU action. Green paper for the Commission to the Council, the European Parliament, the European Economic and Social Committee and the Committee of the Regions

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### Abstract:

Over the last three decades, climate change has already had a marked influence on many physical and biological systems. Its effects are already observable and significant changes in the natural environment will continue to take place, affecting all regions of the world. Over the last few years the EU has financed several large research projects on regional climate modelling and impact assessment. Scientific results provide a basis for understanding the drivers and subsequent impacts of climate change, and for work on identifying cost-effective adaptation options. Several projects funded by the EU Framework Programmes have been instrumental in this context. Research results will also profit from dialogue and consultation with social actors. Climate change remains a key priority in the Seventh Research Framework Programme (FP7) 2007-2013. Integrated research addressing the functioning of the climate and earth system is needed in order to better understand its causes and future evolution, to determine current and future impacts, and to develop effective adaptation and mitigation measures. The overall objectives for research on adaptation under FP7 are to provide the basis for strategic policy options in the context of international agreements, to develop methodologies where there is uncertainty in the prediction of future climate impacts, and develop and analyse tangible adaptation strategies. Furthermore, the first call of FP7, published in December 2006, proposes to focus research progress on essential aspects such as the effectiveness of adaptation and mitigation measures related to changes in the water cycle and its extremes, the full cost of climate change impacts, how climate policies affect land-use and ecosystems, and dissemination of research results and public perception.

### Source:

[http://www.europarl.europa.eu/RegData/docs\\_autres\\_institutions/commission\\_europeenne/sec/2007/0849/COM\\_SEC%282007%290849\\_EN.pdf](http://www.europarl.europa.eu/RegData/docs_autres_institutions/commission_europeenne/sec/2007/0849/COM_SEC%282007%290849_EN.pdf)

### Resource Description

#### Climate Scenario :

specification of climate scenario (set of assumptions about future states related to climate)

Special Report on Emissions Scenarios (SRES)

**Special Report on Emissions Scenarios (SRES) Scenario:** SRES A1, SRES A2, SRES B1

#### Exposure :

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Extreme Weather Event, Food/Water Quality, Food/Water Security, Food/Water Security, Human Conflict/Displacement, Precipitation, Sea Level Rise, Temperature

**Extreme Weather Event:** Drought, Flooding, Hurricanes/Cyclones, Landslides, Wildfires

**Food/Water Quality:** Biotoxin/Algal Bloom

**Food/Water Security:** Agricultural Productivity, Fisheries, Food Access/Distribution, Nutritional Quality

**Temperature:** Extreme Cold, Extreme Heat, Fluctuations

#### Geographic Feature:

resource focuses on specific type of geography

Arctic, Mountain, Ocean/Coastal, Urban, Other Geographical Feature

**Other Geographical Feature :** Floodplains

#### Geographic Location:

resource focuses on specific location

Non-United States

# Climate Change and Human Health Literature Portal

**Non-United States:** Europe

## **Health Impact:**

specification of health effect or disease related to climate change exposure

Cardiovascular Effect, Infectious Disease, Morbidity/Mortality, Respiratory Effect

**Cardiovascular Effect:** Other Cardiovascular Effect

**Cardiovascular Disease (other):** Heart disease

**Infectious Disease:** Foodborne/Waterborne Disease, General Infectious Disease, Vectorborne Disease

**Foodborne/Waterborne Disease:** Salmonellosis, Other Diarrheal Disease

**Vectorborne Disease:** General Vectorborne, Mosquito-borne Disease

**Mosquito-borne Disease:** Malaria

## **Mitigation/Adaptation:**

mitigation or adaptation strategy is a focus of resource

Adaptation

## **Model/Methodology:**

type of model used or methodology development is a focus of resource

Cost/Economic, Exposure Change Prediction, Methodology, Outcome Change Prediction, Other Projection Model/Methodology

**Other Projection Model/Methodology:** Tourism

## **Resource Type:**

format or standard characteristic of resource

Review

**Socioeconomic Scenario:** SES scenarios

## **Timescale:**

time period studied

Long-Term (>50 years)

## **Vulnerability/Impact Assessment:**

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content